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Flora of Middlesex county. Published by the Middlesex Institute.

— Professor E. T. Cox, formerly director of the Geological Survey of Indiana, is engaged in examinations of the antimony mines in Sonora.

— Dr. C. Parona, of Pavia, has recently published an essay on the *Acinetæ* in general, and described a new Italian form.

— The triennial meeting of the American Institute of Mining Engineers was held in Philadelphia, Feb. 15, 1881.

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PROCEEDINGS OF SCIENTIFIC SOCIETIES.

BOSTON SOCIETY OF NATURAL HISTORY, Jan. 19.—The meeting was devoted to archæological topics. Dr. C. C. Abbott, of Trenton, N. J., discussed the evidences of palæolithic man in the valley of the Delaware. Professor Henry W. Haynes compared the argillite implements found by Mr. Abbott with those of the palæolithic age in Europe. The Rev. G. Fred. Wright considered the age of the Delaware gravels. Remarks on these subjects were made by Mr. F. W. Putnam and others.

Feb. 2.—Mr. William Trelease spoke of the fertilization of *Salvia splendens* by birds. Mr. F. C. Bowditch remarked on the economy of the beehive. Mr. F. W. Putnam exhibited an Indian relic from the peat; and Mr. Lucien Carr spoke of the raising of corn by the Indians east of the Mississippi.

TROY SCIENTIFIC ASSOCIATION, Jan. 17, 1881.—Mr. Wm. E. Hagan read a paper on the intellectual development of the United States.

NEW YORK ACADEMY OF SCIENCES, Jan. 3.—Mr. Thomas Bland read a paper on the relations of the flora and fauna of Santa Cruz, West Indies.

Jan. 10.—Dr. George M. Beard lectured on trance, or so-called hypnotism or somnambulism, its nature symptoms and varieties, with especial reference to mesmeric trance. His experiments were conducted on a class of human objects that have been under Dr. Beard's training, and with especial reference to the errors of prominent European observers.

APPALACHIAN MOUNTAIN CLUB, Jan. 12.—President Cross delivered the annual address on the subject of barometric measurement of heights; and Professor J. R. Edmands read a paper on schemes for Appalachian maps.

MIDDLESEX INSTITUTE, Jan. 5.—Frank S. Collins read a paper on "Darwinism." Twelve new names were added to the list of members. The first publication of *The Institute* was issued in the form of a catalogue of the plants of Malden, Medford and vicinity, with blank pages for notes preparatory to the final compilation of a complete catalogue of the counties' flora.

AMERICAN GEOGRAPHICAL SOCIETY, Jan. 11.—Commander J. R. Bartlett, U.S.N., read a paper on the recent investigations of the Gulf Stream by the U. S. Coast and Geodetic Survey steamer *Blake*.

Jan. 25.—Gen. G. W. Callum read a paper on the Land of Egypt.

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SELECTED ARTICLES IN SCIENTIFIC SERIALS.

AMERICAN JOURNAL OF SCIENCE AND ARTS.—February. Notes on Alaska and the vicinity of Behring strait, by W. H. Dall. Relation of Devonian insects to later and existing types, by S. H. Scudder. Date of the Glacial era in Eastern North America, by G. F. Wright. A new genus and species of air-breathing mollusk from the coal measures of Ohio, by R. P. Whitfield. Principal characters of American Jurassic Dinosaurs, by O. C. Marsh, Part IV.

ANNALS AND MAGAZINE OF NATURAL HISTORY.—December, 1880. Note on *Pterygodermatites macdonaldii*, the type of a new order of Vermes, by G. E. Dobson. On the minute structure of the recent *Heteropora neozelanica* and on the relations of the genus *Heteropora* to *Monticulipora*, by H. A. Nicholson. On the northern species of *Buccinum*, by J. G. Jeffreys. On the organization and development of the *Gordii*, second note by A. Villot.

GEOLOGICAL MAGAZINE—January. On the ornithosaurians from the Upper Greensand of Cambridge, by H. G. Seeley.

QUARTERLY JOURNAL OF MICROSCOPICAL SCIENCE—January. On the germination and histology of the seedling of *Welwitschia mirabilis* by F. O. Bower. On the head-cavities and associated nerves of Elasmobranchs, by A. M. Marshall. Contributions to the minute anatomy of the nasal mucous membrane, by E. Klein. Histological Notes, by E. Klein. On the intra-cellular digestion and endoderm of *Limnocoodium*, by E. R. Lankester. (Shows that in the Cœlenterates, as previously shown by Metschnikoff, the endodermal cell take in natural food materials. In the fresh water medusa Lankester has studied the amœboid endodermal cells during life and seen them take in natural food materials, such as *Protococcus* and *Euglena*-like forms. He cites the observation of Parke, who saw a diatom completely embedded in the protoplasm of a cell of *Hydra*, also of Metschnikoff, who has described the inception of solid food particles by the cells lining the alimentary canal of certain Planarians.) On the microscopic numeration of the blood corpuscles and the estimation of their hæmoglobin, by Mrs. E. Hart. Preliminary account of the development of the lampreys, by W. B. Scott. On some appearances of the red blood-corpuscles of man and other vertebrata, by G. F. Dowdeswell. Medusæ and Hydroid polyps living in fresh water, by G. J. Romanes.